IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 2, 3, 5 and 6 and AMEND claims 1, 4 and 7 in accordance with the following:

1. (currently amended) A mechanical model ~~simulator~~simulation device for simplifying the display and simulation of a plurality of linked movable parts, the device comprising:

a part information storage unit storing three-dimensional shape and position information about each part and information about a ~~moving~~ movable unit of each part; and

a user interface unit displaying the three-dimensional shape of each part and a model indicating the ~~moving~~ movable unit of each part based on contents stored in the ~~said~~ information storage unit, and specifying models of a plurality of ~~moving~~ movable units by a pointing device, thereby specifying a ~~drive~~ driving unit and a subordinately moving unit ~~interlocked~~ linked with the ~~drive~~ driving unit, the user interface unit further displaying a constraint condition of each movable unit and a direction of propagation of a movement of a link, specifying a geometric constraint condition, displaying the geometric constraint condition, extracting a shape determined by the specified geometric constraint condition, and displaying the extracted shape with an emphasis to facilitate viewing by the user.

2. (canceled)

3. (canceled)

4. (currently amended) A computer-readable storage medium storing a program used to direct a computer to perform the function of:

displaying a three-dimensional shape of each part and a model indicating a movable unit of each part based on three-dimensional shape and position information about each part stored in advance and information about athe ~~moving~~movable unit of each part~~,~~; ~~displaying the three-dimensional shape of each part and a model indicating the moving unit of each part, and~~;

specifying models of a plurality of ~~moving~~ movable units by a pointing device, thereby specifying a ~~drive~~ driving unit and a subordinately moving unit ~~interlocked~~ linked with the ~~drive~~ driving unit;

displaying a constraint condition of each movable unit and a direction of propagation of a movement of a link;

specifying a geometric constraint condition;

displaying the geometric constraint condition;

extracting a shape determined by the specified geometric constraint condition; and

displaying the extracted shape with an emphasis to facilitate viewing by the user.

5. (canceled)

6. (canceled)

7. (currently amended) A mechanical model simulation~~An interlock system setting~~ method for simplifying the display and simulation of a plurality of linked movable parts, the method comprising:

displaying a three-dimensional shape of each part and a model indicating a movable unit of each part based on the three-dimensional shape and position information about each part stored in advance and information about a~~the moving~~ movable unit of each part~~,~~; ~~displaying the three-dimensional shape of each part and a model indicating the moving unit of each part and~~

specifying models of a plurality of ~~moving~~ movable units by a pointing device, thereby specifying a ~~drive~~ driving unit and a subordinately moving unit ~~interlocked~~ linked with the ~~drive~~ driving unit;

displaying a constraint condition of each movable unit and a direction of propagation of a movement of a link;

specifying a geometric constraint condition;

displaying the geometric constraint condition;

extracting a shape determined by the specified geometric constraint condition; and

displaying the extracted shape with an emphasis to facilitate viewing by the user.